Release notes for ENDF/B Development photoat-013_Al_000 evaluation



October 13, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=1300,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=1300, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 150 TO 169

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=1300, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=1300, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 1 RECORD NUMBER 150

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=501 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY RECORD NUMBER 171

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=502 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY RECORD NUMBER 810

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY RECORD NUMBER 1111

5. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=1300,\ MF=23,\ MT=515\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY RECORD NUMBER 1152

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=516 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY RECORD NUMBER 1184

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=517 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=517 SECTION 23/517 NOT IN DIRECTORY

RECORD NUMBER 1232

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1300, MF = 23, MT = 522 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=522 SECTION 23/522 NOT IN DIRECTORY

RECORD NUMBER 1269

9. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=1300,\ MF=23,\ MT=534\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=534 SECTION 23/534 NOT IN DIRECTORY

RECORD NUMBER 1542

10. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=535 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=535 SECTION 23/535 NOT IN DIRECTORY

RECORD NUMBER 1568

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=536 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=536 SECTION 23/536 NOT IN DIRECTORY

RECORD NUMBER 1602

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=537 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=537 SECTION 23/537 NOT IN DIRECTORY

RECORD NUMBER 1647

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=538 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=538 SECTION 23/538 NOT IN DIRECTORY

RECORD NUMBER 1693

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=23, MT=539 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=539 SECTION 23/539 NOT IN DIRECTORY

RECORD NUMBER 1775

15. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=1300,\ MF=23,\ MT=540\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=23, MT=540 SECTION 23/540 NOT IN DIRECTORY

RECORD NUMBER 1832

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 1300, MF = 27, MT = 502 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=27, MT=502 SECTION 27/502 NOT IN DIRECTORY

RECORD NUMBER 1891

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT-1300 ME-27 MT-504 (0): Directory (b)

MAT = 1300, MF = 27, MT = 504 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=27, MT=504 SECTION 27/504 NOT IN DIRECTORY

RECORD NUMBER 1945

18. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=27, MT=505 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=27, MT=505 SECTION 27/505 NOT IN DIRECTORY

RECORD NUMBER 2000

19. Missing a section in directory so your directory is messed up. This error will break everything else MAT=1300, MF=27, MT=506 (0): Directory (b)

ERROR(S) FOUND IN MAT=1300, MF=27, MT=506 SECTION 27/506 NOT IN DIRECTORY

RECORD NUMBER 2127

- fudge-4.0 Warnings:
 - 1. generic warning message reaction label 0: Al + gamma [coherent] / Product: gamma (Error # 0): Warning

WARNING: coherentScattering is not a valid distribution component for 2-body reaction

2. FIXME: Generic fudge unimplemented message reaction label 0: Al + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message reaction label 1: Al + gamma [incoherent] / Product: gamma (Error # 0): Warning

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message reaction label 1: Al + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 11: total (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

6. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 13: photoelectric absorption (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 84.09%

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: Al + gamma [coherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame reaction label 0: Al + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree reaction label 1: Al + gamma [incoherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame reaction label 1: Al + gamma [incoherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

5. Energy range of data set does not match cross section range reaction label 1: Al + gamma [incoherent] / Product: gamma / Distribution incoherentScattering - piecewise: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

- 8. Calculated and tabulated thresholds don't agree reaction label 4: e- + Al1s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1549.9 eV!
- 9. Calculated and tabulated thresholds don't agree reaction label 5: e-+ Al2s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 119.05 eV!
- 10. Calculated and tabulated thresholds don't agree reaction label 6: e- + Al2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 81.2 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 7: e- + Al2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 80.73 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 8: e- + Al3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10.16 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 9: e- + Al3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.88 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 10: e- + Al3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.87 eV!
- 15. Calculated and tabulated thresholds don't agree summedReaction label 11: total / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!
- 16. Calculated and tabulated thresholds don't agree summedReaction label 12: pair product / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!
- 17. Calculated and tabulated thresholds don't agree summedReaction label 13: photoelectric absorption / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 4.87 eV!